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| Subjects | Machin- ist | Refrig- erating engi- neer | Fire- man/ Water- tender | Oiler | Elec- trician | Junior engi- neer | Deck engi- neer |
|--|----------------|-------------------------------------|-----------------------------------|-------|------------------|-------------------------|-----------------------|
| 12. Precautions necessary when filling empty boilers, starting up | | | | | | | |
| the fuel oil burning system, and raising steam from a cold boiler. 13. The function, operation, and maintenance of the various | | | x | × | | x | |
| engineroom auxiliaries | X | X | X | l x | Х | X | |
| Proper operation of the various types of lubricating systems Safety precautions to be observed in connection with the operation of engineroom auxiliaries, electrical machinery, and | x | x | x | X | X | X | X |
| switchboard equipment | x | х | х | X | Х | x | x |
| 16. The function, operation, and maintenance of the bilge, bal- | × | | | | | | |
| last, fire, freshwater, sanitary, and lubricating systems | X | X X | X | X | X | X X | X X |
| 17. Proper care of spare machine parts and idle equipment18. The procedure in preparing a turbine, reciprocating, or Diesel | _ ^ | _ ^ | _ ^ | _ ^ | ^ | _ ^ | _ ^ |
| engine for standby; also the procedure in securing | | | x | x | | x | |
| Operation and maintenance of the equipment necessary for the supply of water to boilers, the dangers of high and low | | | | | | | |
| water and remedial action | | | X | X | | X | |
| tings and accessories | X | | Х | Х | | X | |
| culations (Ohm's law, power formula, etc.) | | | | | Х | x | X |
| wire D.C. systems and the various single-phase and poly- | | | | | | | |
| phase A.C. systems | | | | | Х | X | X |
| 23. Application and characteristics of parallel and series circuits | | | | | X | X | X |
| 24. Application and maintenance of electrical meters and instru- ments | | | | | х | × | x |
| The maintenance and installation of lighting and power wiring involving testing for, locating and correcting grounds, short cir- | | | | | | | |
| cuits and open circuits, and making splices | | | | | Х | x | x |
| erators and motors, both A.C. and D.C | | | | | x | l x | × |
| 27. Operation, installation, and maintenance of the various types | | | | | X | x | x |
| of electrical controls and safety devices | | | | | ^ | _ ^ | ^ |
| such as telegraphs, telephones, alarm systems, fire-detecting systems, and rudder angle indicators | | | | | х | x | |
| 29. Rules and Regulations and requirements for installation, re- | | | | | | | |
| pair, and maintenance of electrical wiring and equipment installed aboard ships | | | | | Х | x | x |
| 29a. Pollution laws and regulations, procedures for discharge containment and cleanup, and methods for disposal of sludge | | | | | | | |
| and waste from cargo and fueling operations | X | X | X | X | Х | X | |
| the Officer in Charge, Marine Inspection, may consider nec- essary to establish the applicant's proficiency | x | × | x | × | х | x | x |
| | 1 | 1 | 1 | 1 | l | I | I |

(c) Each applicant for certification as a qualified member of the engine department in the rating of pumpman shall, by oral or other examination, demonstrate sufficient knowledge of the subjects peculiar to that rating to satisfy the Officer in Charge, Marine Inspection, that he or she is qualified to perform the duties of that rating.

(d) Applicants for certification as qualified members of the engine department in the rating of deck engine mechanic or engineman, who have proved eligibility for such endorsement under either §12.15–13 or §12.15–15, will

not be required to take a written or oral examination for such ratings.

[CGFR 65-50, 30 FR 16640, Dec. 30, 1965, as amended by CGFR 66-46, 31 FR 13649, Oct. 22, 1966; CGD 71-161R, 37 FR 28263, Dec. 21, 1972; CGD 74-75, 42 FR 24741, May 16, 1977; CGD 94-029, 61 FR 47064, Sept. 6, 1996]

§12.15-11 General provisions respecting merchant mariner's documents endorsed as qualified member of the engine department.

The holder of a merchant mariner's document endorsed with one or more qualified member of the engine department ratings may serve in any unqualified rating in the engine department

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without obtaining an additional endorsement. This does not mean that an endorsement of one qualified member of the engine department rating authorizes the holder to serve in all qualified member of the engine department ratings. Each qualified member of the engine department rating for which a holder of a merchant mariner's document is qualified must be endorsed separately. When, however, the applicant qualifies for all ratings covered by a certificate as a qualified member of the engine department, the certification may read QMED-any rating. The ratings are as follows:

- (a) Refrigerating engineer.
- (b) Oiler.
- (c) Deck engineer.
- (d) Fireman/Watertender.
- (e) Junior engineer.
- (f) Electrician.
- (g) Machinist.
- (h) Pumpman.
- (i) Deck engine mechanic.
- (j) Engineman.

[CGFR 65-50, 30 FR 16640, Dec. 30, 1965, as amended by CGFR 66-46, 31 FR 13649, Oct. 22, 1966; CGD 74-45, 42 FR 24741, May 16, 1977]

§ 12.15-13 Deck engine mechanic.

- (a) An applicant for a certificate as *deck engine mechanic* shall be a person holding a merchant mariner's document endorsed as *junior engineer*. The applicant shall be eligible for such certification upon furnishing one of the following:
- (1) Satisfactory documentary evidence of sea service of 6 months in the rating of *junior engineer* on steam vessels of 4,000 horsepower or over; or,
- (2) Documentary evidence from an operator of an automated vessel that he has completed satisfactorily at least 4 weeks indoctrination and training in the engine department of an automated steam vessel of 4,000 horsepower or over; or,
- (3) Satisfactory completion of a course of training for *deck engine mechanic* acceptable to the Commanding Officer, National Maritime Center.
- (b) The Officer in Charge, Marine Inspection, who is satisfied that an applicant for the rating of *deck engine mechanic* meets the requirements specified in this section, will endorse this

rating on the current merchant mariner's document held by the applicant.

(c) Any holder of a merchant mariner's document endorsed for *any unlicensed rating in the engine department* or *QMED—any rating* is qualified as a *deck engine mechanic* and that endorsement will not be entered on his document.

[CGFR 66-46, 31 FR 13649, Oct. 22, 1966, as amended by CGD 95-072, 60 FR 50460, Sept. 29, 1995; CGD 95-028, 62 FR 51196, Sept. 30, 1997; USCG-1998-4442, 63 FR 52189, Sept. 30, 1998]

§12.15-15 Engineman.

- (a) An applicant for a certificate as *engineman* shall be a person holding a merchant mariner's document endorsed as *fireman/watertender* and *oiler*, or *junior engineer*. The applicant shall be eligible for such certification upon furnishing one of the following:
- (1) Satisfactory documentary evidence of sea service of 6 months in any one or combination of *junior engineer*, *fireman/watertender* or *oiler* on steam vessels of 4,000 horsepower or over; or,
- (2) Documentary evidence from an operator of a partially automated steam vessel that he has completed satisfactorily at least 2 weeks indoctrination and training in the engine department of a partially automated steam vessel of 4,000 horsepower or over; or
- (3) Satisfactory completion of a course of training for *engineman* acceptable to the Commanding Officer, National Maritime Center.
- (b) The Officer in Charge, Marine Inspection, who is satisfied that an applicant for the rating of *engineman* meets the requirements specified in this section, will endorse this rating on the current merchant mariner's document held by the applicant.
- (c) Any holder of a merchant mariner's document endorsed for any unlicensed rating in the engine department, QMED—any rating or deck engine mechanic is qualified as an engineman and that endorsement will not be entered on his document.

[CGFR 66-46, 31 FR 13650, Oct. 22, 1966, as amended by CGD 95-072, 60 FR 50460, Sept. 29, 1995; CGD 95-028, 62 FR 51196, Sept. 30, 1997; USCG-1998-4442, 63 FR 52189, Sept. 30, 1998]